Galileo Was Wrong
The Church Was Right

The Evidence from Modern Science

Seventh edition

Volume 1

Chapters 1 to 6

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and
Robert J. Bennett, Ph.D.

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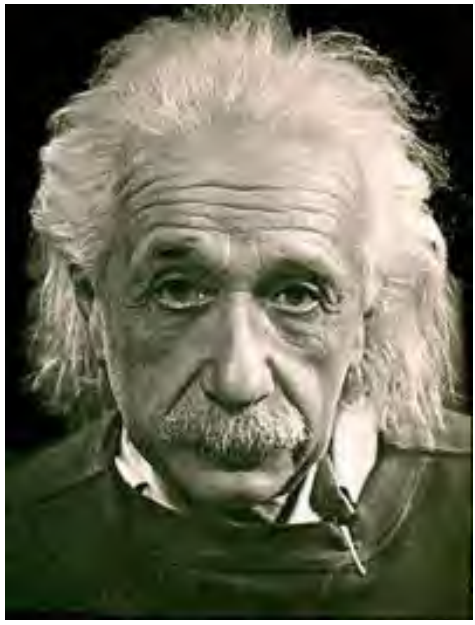
This volume is dedicated to:

Albert Einstein



…who invented Special Relativity to counter experiments revealing that the Earth was motionless in space, which then led him to General Relativity that forced him to accept a motionless Earth as a viable and worthy cosmological system

Table of Contents

About the Authors ix
Endorsements x
Notes Concerning Terminology xiii
Introduction 1

Chapter 1
The New Galileo and the Truth about Copernicanism 11

Galileo's Conversion to Geocentrism 12
Copernicanism's Procrustean Bed 16
Ancient Origins of the Heliocentric/Geocentric Debate 30
The Basic Framework: Crystalline Spheres 31
The Greek Heliocentrists 34
The Geocentric Victory 36
The Real Truth about Copernicus' Solar System 43
Copernicus: More Epicycles than Ptolemy 56
The Real Truth about Kepler's Solar System 68
Kepler verses Tycho 70
Ptolemy, Copernicus and Kelper in Perspective 80
Why No System is Completely Accurate 95
What was the Attraction to Copernicanism? 101
Is There a Copernican Conspiracy? 109

Chapter 2
Answering Common Objections about Geocentrism 125

1) Doesn't the Smaller Always Revolve Around the Larger? 125
2) Doesn't Stellar Parallax Prove the Earth is Moving? 147
3) Doesn't Stellar Aberration Prove the Earth Revolves? 158
4) Doesn't the Foucault Pendulum Prove Earth Rotates? 168
5) Doesn't the Bulge of the Equator Prove Earth Rotates? 180
6) Doesn't a Geosynchronous Satellite Prove Earth Rotates? 182
7) Don't Space Probes Show the Earth Rotates? 183
8) Doesn't Retrograde Motion Prove Earth is Moving? 184
9) Doesn't Star Streaming Prove Earth is Moving? 187
10) Doesn't the Doppler Effect Prove Earth is Moving? 187
11) Is Geocentrism's Geometry More Complicated? 190
12) Do the Planets Revolve Around the Sun or the Earth? 192

13) Don't the Four Seasons Prove the Earth Revolves? 192
14) Do Earthquakes and Tsunamis Retard Earth's Rotation? 201
15) Doesn't NASA Use the Heliocentrism for Space Probes? 206
16) Don't the Phases of Venus Disprove Ptolemy? 209
17) Didn't Einstein Do Away with Ether? 214
18) Isn't Impossible for the Stars to Travel so Fast? 220
19) Doesn't Redshift Contradict a Small? 230
20) Doesn't the GPS Prove Relativity? 232
21) Doesn't Dark Matter Prove the Earth Isn't Special? 239
22) Doesn't Dark Energy Prove the Universe is Expanding? 247
23) Didn't WMAP Prove the Big Bang? 261
24) Doesn't the Speed of Light Contradict Genesis 1 269
25) Doesn't a Rotating Universe Cause the Earth to Rotate? 286

Chapter 3
Evidence that Earth is the Center of the Universe 293

Edwin Hubble's "Intolerable" Observations 293
Big Bang Dilemma: Dark Energy or Geocentrism? 315
The Discovery of the Cosmic Microwave Radiation 321
CMB Anisotropy and Earth-Centeredness 331
The 2001 Wilkinson Microwave Anisotropy Probe 337
NASA's Interpretation of the WMAP Data 368
The 2009 Planck Probe 378
Correlation between the CMB and Preferred Spin Axis 383
Distant Radio Sources Non-Copernican 388
CMB Displays Small Spherical Universe 388
The Hall of Mirrors Effect 390
Correlation between Stonehendge and the CMB 393
Gamma-Ray Bursts: The Copernican Dilemma 397
Quasars: Spheres Around the Earth 403
Violation of the Copernican Principle in Radio Sky 416
Galaxies: Spheres of Stars around the Earth as Center 417
The 2005 Sloan Digital Sky Survey 422
Concentric Circles in WMAP Anisotropies 434
Geocentrically Oriented Spectroscopic Binaries 435
Quantized Planetary Orbits 438
The Last Copernican Frontier: The Multiverse 439
"The View from the Center of the Universe" 452

Chapter 4
Experimental Evidence Earth is Motionless in Space 457

Einstein's "Unthinkable" Alternative 457
The Significance of the Michelson-Morley Experiment 464
Einstein's Concern for the Fizeau and Airy Experiments 465
The Experiments of Dominique Arago 469
The Experiments of Augustin Fresnel 471
The Experiments of Armand Fizeau 475
The Experiments of James Bradley and George Airy 479
The Experiments of Martinus Hoek 489
The Experiments of Eleuthère Mascart 491
The 1881 Michelson Experiment 492
The 1887 Michelson-Morley Experiment 498
Fitzgerald/Lorentz's Incredible Shrinking Machine, Phase I 504
Albert Einstein Enters the Fray 527
The Ether Entrainment Option 540
Einstein and the Incredible Shrinking Machine, Phase II 542
Herbert Dingle's Critique of Einstein 568
Martin Gardner and the Inherent Flaws of Relativity 574
The Dead Ends of Relativity for Modern Cosmology 577
The Case of the μ-meson 587
Einstein Admits Speed of Light is Not Constant 590
Einstein Reinterprets Maxwell 595

Chapter 5
More Experiments Point to Geocentrism 609

Interferometer Experiments Subsequent to 1905 614
The Geocentrism Connection 621
What about the Copernican Non-Relativists? 622
How to Correctly Interpret an Interferometer 623
Sagnac 1913 Exp: Rediscovery of Absolute Motion 627
The Michelson-Gale Exp: Sidereal Relative Rotation 637
The Dayton Miller Experiments 644
Recent Ether-Drift Experiments 663
The Results of Sapphire Oscillators 667

Chapter 6
What is Space in the Geocentric Universe? 673

Einstein Goes Back to Ether 678
Candidates for Material Ether 694
The Ether of Quantum Mechanics and String Theory 705
String Theory: Seeking to Bridge Einstein and Quantum 714
Can Man Live in the World he has Created? 718
The Copenhagen Perspective 721
The Demise of Relativity Theory 725
Newton's Absolute Space and Spinning Water Bucket 731
The "Space" of Diggs, Bruno, and Descartes 735
The "Space" of Leibniz, Euler, and Kant 738
Ernst Mach, Albert Einstein and Modern Philosophy 742
Mach's Interpretation of Newton's Bucket 747
Einstein's Interpretation of Newton's Bucket 749
The Inherent Problems of Newton and Einstein's Physics 754
Are There Universal Connections in Space? 760
The Geocentric Connection 771

About the Authors

Robert A. Sungenis, Ph.D., is the founder of Catholic Apologetics International Publishing, Inc., a non-profit corporation. He holds advanced degrees in Theology and Religious Studies and was a physics major in college. His 700-page doctoral dissertation defended geocentric cosmology from scientific, theological and historical perspectives. He is the author of over twenty books on religion, politics, science and culture. He is also the managing partner of Stellar Motion Pictures, LLC in Los Angeles, which specializes in producing movies on science and religion. He is the executive producer of the recently released movie, *The Principle*. He has appeared on radio and television, including programs on CNN, the BBC and EWTN. He has authored all the chapters and appendices for *Galileo Was Wrong: The Church Was Right: The Evidence from Modern Science*, except for Chapter 10.

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Robert J. Bennett, Ph.D., holds a doctorate in Physics from Stevens Institute of Technology with a thesis on General Relativity titled "Relativistic Rigid Body Motion." He served as a physics instructor at Manhattan College and Bergen Community College from 1967-1983, and is presently doing private tutoring in physics and mathematics. Dr. Bennett has written Chapter 10, a detailed, technical and mathematical explanation of the various arguments for Geocentrism. He has served as a consultant for the entire *Galileo Was Wrong: The Church Was Right: The Evidence from Modern Science* project.

Endorsements

A truly magnificent work. There exists no better exposition of the history and science of geocentrism. Very highly recommended and a must for all those interested in the issues surrounding geocentrism today. The animations of the CD are excellent. They illustrate the daily and yearly motions of the sun and planets about the earth, the seasons, retrograde motion, and parallax in a uniform way. The authors have done a very admirable job all around. At long last their book provides the solution to all the "dark" fudging and dead-ends in modern Big Bang cosmology – a solution that no one dared voice until an accumulation of evidence over the last two hundred years forced them to do so.

Gerardus Bouw, Ph.D.
Astronomy, Case-Western University, Author of *Geocentricity*

Drs. Sungenis and Bennett make a convincing case for the special and central position of the earth in the cosmos, both physically and spiritually. This is radically at odds from what everyone is taught from childhood; everyone "knows" the earth revolves around the sun. However, from time to time, like the little girl in Andersen's tale *The Emperor's New Clothes*, accepted "wisdom" is challenged; and what everyone "knows" to be true turns out to be merely a concocted fantasy. They make a powerful case that the "truths" of heliocentric and acentric cosmologies aiming to describe the "fabric" of space-time may in fact be constructed out of the same type of "cloth" as the outfit of the Emperor.

Vincent J. Schmithorst, Ph.D., Physics

This book shatters the mythology of the modern mind. Galileo and Einstein go the way of Zeus, as the truth ascends to reclaim man's destiny. It will change the world more dramatically than Copernicus, Galileo, Kepler, Newton and Einstein combined.

Gerald Benitz, M.A., Ph.D. Mathematics/Electrical Engineering

In their book, Robert Sungenis and Robert Bennett have provided an excellent synopsis of a field of science that most people today have probably not even heard about. It is not a regurgitation of some ancient, debunked theory. Neither is this a lightweight paperback, in the vein of so many publications by scientists who have lost the dividing line between science and science fiction. Rather, this book is a work of monumental proportion which ranks, in my opinion, on a par with the meticulous observations of the Danish astronomer, Tycho Brahe, and the tireless efforts of Walter van der Kamp who almost single-handedly raised

geocentrism from the ashes in the 1970s and 80s….This book is a scholarly piece of work that should thus be welcomed by any thinking person, and that provides ample food for thought on our place within God's universe."

Neville Thomas Jones, Ph.D. Physics, Imperial College, London

Now that the Enlightenment is over, it was inevitable that the system upon which it was based should come in for the powerful critique which Sungenis and Bennett provide. Not inevitable, however, was the brilliant way they provide it. Their book exposes the ideological underpinnings of the system that failed at the time of the Michelson-Morley experiments, got revived by Einstein, and is still causing mischief today.

E. Michael Jones, Ph.D. History, Temple Univ., Editor: *Culture Wars*

In their book, Sungenis and Bennett examine the 'anomalies' that arise from the Copernican model, anomalies that are swept under the rug by the same scientists who assume the earth is immobile in order to 'simplify' complex problems. A must read for those who can set aside prejudices and a priori assumptions. Human civilization is poised to undergo a colossal multi-faceted shift in perception, philosophy, science and metaphysics that is simply unprecedented in recorded history.

Joseph A. Strada, Ph.D., Aerospace Engineer, NRO

This book forcefully addresses the history, science, theological, philosophical, and worldview implications of our place in the universe. It is virtually a one-volume encyclopedia on geocentrism. After the science has been discussed and the history has been told, it is a powerful reminder of the worldview struggle that faces Christians today.

Russell T. Arndts, Ph.D., Chemistry, L.S.U.

Many works of art and science in the past have been claimed as "game-changers" or "paradigm shifts," only to be revealed later as only superficially different from the status-quo. This book may look like just another "new" and "improved" intellectual product, but it's the real thing.

Thaddeus J. Kozinski, Ph.D. Philosophy,
Wyoming Catholic College

It is with pleasure that I remand this volume into the hands of the reader, whether he or she is an atheistic scoffer, a Roman Catholic inquirer, a Protestant polemicist, an Evangelical skeptic, or is otherwise motivated to re-open an issue heretofore thought, wrongly, to have been settled nearly four centuries ago. This is all the more remarkable, insofar

as the present volume exposes the dark, seamy underside of modern science and its Janus-like propensity for speaking out of both sides of its mouth simultaneously.

Martin G. Selbrede, Vice President, The Chalcedon Foundation

This book takes a critical look at the thesis that the Earth is flying through space. Here you will find a thorough review of the scientific observations along with a review of the scientists themselves. You will have the evidence to make up your mind for yourself. Robert Sungenis and Robert Bennett have done a great service to science and to men of good will. Those who see the universe as the handiwork of God need no longer be subservient to fairy tales.

Anonymous, Ph.D. (name withheld by request)
Massachusetts Institute of Technology

This is an amazing work which opened my mind to many things in the field of astronomy and cosmology. I am grateful to Robert Sungenis and his co-author Robert Bennett for this lucid, philosophically powerful and meticulously documented work.

Caryl Johnston, M. Ed., M.L.S.
Jefferson Medical College, Author: *Consecrated Venom*

The very mention that the earth is motionless at the center of the universe, with the sun and universe revolving about it each day, as outlined and defended from physics and astronomy in this book, elicits a profound initial disbelieving shock. This is not a matter of belief but of evidence and of demanding study. Accumulated evidence justifies the rational claim of the text.

John Domen, MS, Physics, Massachusetts Institute of Technology

From Quasars to Gamma-Ray Bursts, from Parallax to Red Shifts, and from Michelson-Morley to Sagnac, Drs. Sungenis and Bennett's book meticulously applies the scientific mortar to the theological bricks of geocentrism, producing a compelling structure that brings Catholic teaching and modern science to a crossroads. If the Earth is really the center of the universe, then modern man must face his biggest fear – that there is a Creator who put it there, and man is subject to His rule and authority.

John Salza, Esquire, Author: *Masonry Unmasked*

Notice Concerning Terminology and Physics

This book is written for both layman and scientist. The main text of the book seeks to explain the scientific information in a simple and entertaining way. The footnotes contain the technical information and sources for the scientist and scholar. We employ the term "geocentrism" to represent the scientific position that the Earth is motionless in space at the center of the universe with neither diurnal rotation nor translational movement. We have adopted the term "heliocentrism" to represent the views of Copernicus, Galileo, Kepler, Newton, even though there are various differences among them, including the acentrism of Einstein. Others employ "geocentricity" or "geostatism" to represent the motionless Earth, and employ "geokineticism" or "antigeostatism" to represent a moving Earth. The term "geocentrism" will stand for any scientific theory that holds the Earth is the center of the universe and/or motionless in space. The term "heliocentrism" will stand for any scientific theory that holds that the Earth is not in the center, or that the sun is the center, or that there is no center of the universe, and that the Earth is in constant motion. In addition to the above, we have adopted the spelling "ether" rather than "aether," since most scientific texts have employed the former. We have adopted to capitalize titles such as Special Relativity, General Relativity, Quantum Mechanics, the Big Bang, String Theory, etc., in order to emphasize that a particular but controversial theory is being discussed. The word "Earth" has been consistently capitalized in distinction to "sun," "moon," "stars" or "universe" which have been left in the lower case. The cosmic microwave background radiation is abbreviated with the acronym "CMB." So as to limit the confusion often inherent in the words rotation and revolution, these volumes use word "rotation" to refer to the turning of an object upon its own axis, including the turn of the entire universe around the north-south axis of the Earth; whereas "revolution" refers to the angular movement of one object around another wherein both are separated by space, as in saying "Mercury revolves around the sun."

We make use of Newtonian, Machian, Lorentzian, Einsteinian, Quantum, LCDM (Big Bang) and other mathematical systems of physics but do not endorse any of them as having the correct physical representation of reality. We use these models to demonstrate that the geocentric universe can be substantiated by one or more of these models, but that none of them can provide the correct physical model of the universe. At times we will demonstrate how their limited view of reality has been used to obscure geocentric cosmology from the public, and at other times show how the logical conclusions of their own systems supports geocentric cosmology.

"All truth passes through three stages. First, it is ridiculed. Second, it is violently opposed. Third, it is accepted as being self-evident."

Arthur Schopenhauer[1]

"Scientists...are used to dealing with doubt and uncertainty. All scientific knowledge is uncertain….Science alone of all the subjects contains within itself the lesson of the danger of belief in the infallibility of the greatest teachers in the preceeding generation….Learn from science that you must doubt the experts…Science is the belief in the ignorance of experts."

Richard Feynman[2]

"Sometimes the first obligation of intelligent men is to restate the obvious."

George Orwell[3]

"Many people believe they are thinking when they are only rearranging their pre-existing prejudices."

Martin Selbrede[4]

"The Copernican revolution outshines everything since the rise of Christianity and reduces the Renaissance and Reformation to the rank of mere episodes."

Herbert Butterfield[5]

"The fool on the hill sees the sun going down and the eyes in his head see the world spinning round."

Lennon and McCartney[6]

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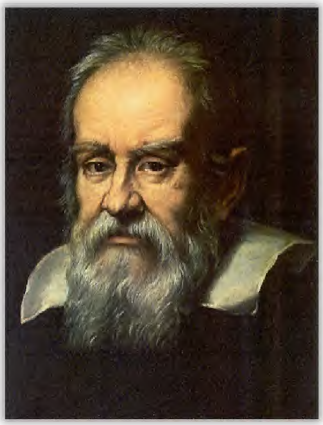
[1] Attributed, not verified.
[2] Richard, Feynman, *The Meaning of it All: Thoughts of a Citizen Scientist*, 1998, p. 26; Feynman, *The Pleasure of Finding Things Out*, 1999, p. 188; *ibid*., p. 187.
[3] Attributed, not verified.
[4] Interview for the scientific documentary, *The Principle*, 2012.
[5] Owen Barfield, *Saving the Appearances: A Study in Idolatry*, 2nd edition, Wesleyan University Press, 1988, pp. 50-51.
[6] From the song, *The Fool on the Hill*, recorded 1967.

Introduction

This book, *Galileo Was Wrong: The Church Was Right: The Evidence from Modern Science*, will, at the least, be viewed as an unusual book by the world at large. In modern times, everyone is taught from early childhood through old age that the Earth rotates on its axis and revolves around the sun. It is considered a bedrock of truth so firmly established that only the insane or perhaps members of the Flat Earth Society, would doubt or question so sanctified a truth of modern man.



Galileo Galilei
1564 – 1642

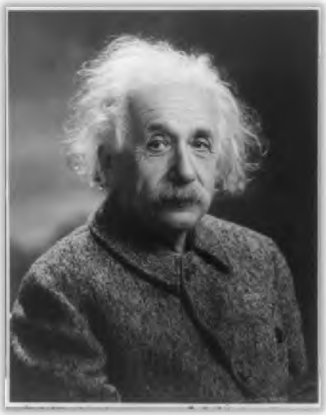
Unbeknownst to almost the entire human race, however, is the fact that no one in all of history has ever *proven* that the Earth moves in space. Despite his protestations to the contrary, the historical record reveals that **Galileo Galilei** had no proof for his controversial assertions. What he purported as proof in his day would be laughed out of science classrooms today. Galileo merely began a myth, a myth that eventually took on a life of its own and became the *status quo* of popular thinking.

But this is not merely Galileo's burden. In fact, as we will see in Chapter 1, a year before he died Galileo renounced, quite dramatically, all his claims that the Earth went around the sun – a fact of history which has been kept well under wraps by the reigning powers of academia. The burden is now on modern science, since some three hundred years after Galileo, like him, it has also deprived us of proof that the Earth moves. As one honest scientist put it in a book endorsed by Einstein: "…nor has any physical experiment ever proved that the Earth actually is in motion."[7] Modern scientists freely admit that heliocentrism is merely the *preferred* model of cosmology, and the choice to believe it is made purely on philosophical grounds, not scientific ones. Although various scientists and historians have certainly made it *appear* as if many and varied proofs exist for heliocentrism, and thereby they have convinced a rather naïve public, in reality, modern

[7] Lincoln Barnett, *The Universe and Dr. Einstein*, p. 73.

science is actually covering up the fact that it has no proof for its cherished view of cosmology.

As **Albert Einstein** himself once admitted, reliance on the doctrine of Copernicus is not nearly as strong as we were once led to believe:



> Since the time of Copernicus we have known that the Earth rotates on its axis and moves around the sun. Even this simple idea, so clear to everyone, was not left untouched by the advance of science. But let us leave this question for the time being and accept Copernicus' point of view.[8]

Stephen Hawking, the next most famous physicist after Einstein, said something very similar:

> So which is real, the Ptolemaic or the Copernican system? Although it is not uncommon for people to say that Copernicus proved Ptolemy wrong, that is not true. As in the case of our normal view versus that of the goldfish, one can use either picture as a model of the universe, for our observations of the heavens can be explained by assuming either the earth or the sun to be at rest.[9]

[8] Albert Einstein and Leopold Infeld, *The Evolution of Physics*, 1938, 1966, pp. 154-155. Thus, Einstein could say: "The four men who laid the foundation of physics on which I have been able to construct my theory are Galileo, Newton, Maxwell, and Lorentz" ("Einstein, too, is Puzzled; It's at Public Interest," *Chicago Tribune*, April 24, 1921, p. 6).

[9] *The Grand Design*, Stephen Hawking and Leonard Mlodinow, 2010, pp. 41-42. Hawking adds: "Despite its role in philosophical debates over the nature of our universe, the real advantage of the Copernican system is simply that the equations of motion are much simpler in the frame of reference in which the sun is at rest." Hawking is referring to Ptolemy's epicycles and equants. As we will see later, however, Ptolemy was seeking to account for the real motions of the planets as opposed to mere circular orbits. Copernicus desired to keep Aristotle's circular orbits but later was forced to add his own epicycles to account for the actual

Modern science has, indeed, been very happy to follow Einstein's prescription to "accept Copernicus' point of view" even though it has been made very clear that "the advance of science" has revealed it is an unprovable assumption. As one of Einstein's staunch supporters and a much admired physicist in his own right, Sir Arthur Eddington, admitted about the question:

Arthur Eddington
1882-1944

> Which is right?....Or are both the victims of illusion?....No one knows which is right. No one will ever know, because we can never find out which, if either, is truly at rest in the aether….The bulge of the Earth's equator may be attributed indifferently to the Earth's rotation or to the outward pull of the centrifugal force introduced when the Earth is regarded as non-rotating.[10]

A very famous experiment took place in 1887 to answer the above question – the Michelson-Morley experiment. The results were shocking to say the least. Based on the then current science, the experiment demonstrated the Earth wasn't moving through space. In a book endorsed by Einstein, theoretical physicist James Coleman admitted:

> ….The easiest explanation was that the earth was fixed in the ether and that everything else in the universe moved with respect to the earth and the ether….Such an idea was not considered seriously, since it would mean in effect that our earth occupied the omnipotent position in the universe, with all the other heavenly bodies paying homage by moving around it.[11]

Lincoln Barnett says much the same:

> The Michelson-Morley experiment confronted scientists with an embarrassing alternative. On the one hand they could scrap the ether theory which had explained so many things about

---

motion of the planets, and thus his system was not "much simpler" than Ptolemy's.

[10] *Space, Time and Gravitation*: *An Outline of the General Relativity Theory*, 1923, pp. 24, 41. Eddington adds: "Some would cut the knot by denying the aether altogether. We do not consider that desirable" (*ibid*., p. 39).

[11] James A. Coleman, *Relativity for the Layman*, p. 37. Of Coleman's book Einstein wrote: "Gives a really clear idea of relativity" (front cover 1954 edition).

> electricity, magnetism, and light. Or if they insisted on retaining the ether they had to abandon the still more venerable Copernican theory that the earth is in motion. To many physicists it seemed almost easier to believe that the earth stood still than that waves – light waves, electromagnetic waves – could exist without a medium to sustain them. It was a serious dilemma and one that split scientific thought for a quarter century. Many new hypotheses were advanced and rejected. The experiment was tried again by Morley and by others, with the same conclusion; the apparent velocity of the earth through the ether was zero.[12]

After a quarter century of turmoil, a choice had to be made. Either mankind could retain its then present knowledge of physics but admit the Earth was motionless in space, or it could reinvent physics with all new concepts and formulas to keep the Earth moving. Needless to say, the latter option was chosen. The one to lead them in this new venture was Albert Einstein. In a word, Einstein was forced to turn science upside down in order to keep Copernicus enshrined in the hearts of men. In turn, Einstein's supporters have followed him and his theories with almost godlike devotion, developing what is, for lack of a better term, the 'cult of Einstein.' As his major biographer said it:

> A new man appears abruptly, the 'suddenly famous Doctor Einstein.' He carries the message of a new order in the universe. He is a new Moses come down from the mountain to bring the law and a new Joshua controlling the motion of heavenly bodies….The new man who appears at that time represents order and power. He becomes the θεῖος ἀνήρ, the divine man, of the twentieth century.[13]

The reality is quite different, however. The theory of Relativity, by its very nature, brings Copernican cosmology under great suspicion and ultimately forces it into becoming just one perspective among others. By design, these stark implications of Relativity theory have been

[12] Lincoln Barnett, *The Universe and Dr. Einstein*, p. 44.

[13] Abraham Pais, *Subtle is the Lord*, 1982, 2005, p. 311. The phrase θεῖος ἀνήρ is the Greek for "divine man." As another physicist put it: "Too often students believe that Moses, or rather Newton or Einstein, came down from a physical Mt. Sinai with his laws engraved on tablets of stone" (Ronald Newburgh, "Inertial forces, absolute space, and Mach's principle: The genesis of relativity," *American Journal of Physics*, 75(5), May 2007, p. 427).

systematically ignored and the science community has decided to "leave this question for the time being" hoping that few people will be bold enough to follow the implications to their logical conclusion and ask, indeed, what right mankind has to "accept Copernicus' point of view." It is just a matter of time before books and articles like the one you are reading will begin to reveal this information to the public. Up until now almost all of it has been hidden from their eyes. Little is revealed at the university level, and virtually none of it has been divulged in the secondary curriculum, and we certainly haven't read it on the pages of *Time* or *USA Today*, except perhaps for the occasional ridiculing of "fundamentalists" and their offshoots for even broaching such subjects. There is a good reason why such reticence exists – there is simply too much at stake. The mere thought of having to tell the world that it might have to turn back the clock and admit that science took a wrong turn when it accepted the Copernican theory as a scientific fact is, as Einstein's biographer once put it, "unthinkable."[14]

We can sympathize with their plight. Think of the sheer embarrassment modern science would face if it were forced to apologize for 500 years of propagating one of the biggest blunders since the dawn of time. This is not the Middle Ages, a time in which mistakes can be excused due to primitive scientific tools and superstitious notions. This is the era of Newton, Maxwell, Faraday, Darwin, Einstein, Edison, Planck, Hubble, Hawking, and scores of other heroes of science. If Copernicus is wrong, how could modern science ever face the world again? How could it ever hold to the legacy left by these scientific giants if it were forced to admit it was wrong about one of its most sacrosanct and fundamental beliefs? Admitting such a possibility would put question marks around every discovery, every theory, every scientific career, and every university curriculum. The very foundations of modern life would crumble before their eyes. Not only would Earth literally become immobile, but it would figuratively come to a halt as well, for men would be required to revamp their whole view of the universe, and consider the most frightening reality of all – that a supreme Creator actually *did* put our tiny globe in the most prestigious place in the universe, since only fools would dare to conclude that Earth could occupy the center of the universe by chance. Most of all, science would be compelled to hand the reins of power and influence back to the Church and to Scripture, since it is from these sources alone that the teaching of a motionless Earth originated.

Although we can all agree that modern science certainly has more sophisticated instruments today that allows it to gather thousands of bits of

[14] Ronald Clark, *Einstein: The Life and Times*, 1984, p. 110.

data about the universe, the problem is that scientists are at a loss how to interpret that information correctly and put it into a coherent and comprehensive understanding of the universe. Knowledge is plentiful, but wisdom is severely lacking. As one astronomer admitted: "Perhaps it is time for astronomers to pause and wonder whether they know too much and understand too little."[15] Hence, the first two volumes of *Galileo Was Wrong: The Church Was Right* will be devoted mainly to the scientific evidence concerning cosmology. Since modern science has made itself into such an imposing authority on the minds of men today, no study of this kind could possibly be adequate until the scientific assertions are thoroughly addressed and rebutted. We have compiled the most comprehensive scientific treatise on the issue ever offered to the public. The third volume will be devoted mainly to the scriptural, ecclesiastical and patristic evidence supporting the cosmology of geocentrism. We only ask that you, the reader, contemplate the issue with an open mind. All too often when controversial subjects of this nature arise, those who wish to protect the *status quo* are quick to demonize their opponents, choosing instead to associate them with such institutions as the "Flat earth society," or characterize them as geeks who don tinfoil hats and receive messages from outer space. Hopefully, you will not fall into that trap of bigotry and censorship. Rest assured, the authors of this book do not fill any of the above caricatures, but are dedicated solely to the cause of truth, both scientific and theological, and will seek to do their task in the face of any opposition.

The world today has lost sight of its purpose for existence. Corruption, apathy and decadence have penetrated almost every level of society. Consequently, the human soul desperately needs a refresher course on the meaning of life. Only a few have realized what a large part Copernicanism has played in the overall deterioration of society. The poet Johann von Goethe once wrote:

> But among all the discoveries and corrections probably none has resulted in a deeper influence on the human spirit than the doctrine of Copernicus…. Possibly mankind has never been demanded to do more, for considering all that went up in smoke as a result of realizing this change: a second Paradise, a world of innocence, poetry and piety: the witness of the senses, the conviction of a poetical and religious faith. No wonder his contemporaries did not wish to let all this go and offered every possible resistance to a doctrine which in its converts authorized

[15] Herbert Friedman, *The Amazing Universe*, National Geographic, 1975, p. 180.

> and demanded a freedom of view and greatness of thought so far unknown indeed not even dreamed of."[16]

Barring a conversion to geocentric cosmology, our modest goal is, whoever reads these volumes will not leave without realizing that what he has been taught about the Earth's annual journey around the sun is not so certain after all, and that similar to the rationale for deciding verdicts in a court of law, one should realize that there is enough evidence supporting geocentrism to cause a reasonable doubt in the minds of intelligent people. As even one of the leading science magazines recently stated: "When an author puts himself on the line by embracing an unfashionable idea, even though he is guaranteed to generate scorn or indifference, this should somehow be recognized" (*Discover*, December 2006).

Robert Sungenis
December 2012

[16] Zur Farbenlehre, Materialien zur Geschichte der Farbenlehre, Frankfurt am Main, 1991, Seite 666.

For it is He who gave me unerring knowledge
of what exists, to know the structure of the world
and the activity of the elements;
the beginning and end and middle of times,
the alternations of the solstices
and the changes of the seasons,
the cycles of the year
and the constellations of the stars…
I learned both what is secret and what is manifest,
for wisdom, the fashioner of all things, taught me.

Wisdom 7:17-19, 21

"I have come to believe that the motion of the Earth cannot be detected by any optical experiment."

Albert Einstein[17]

"…to the question whether or not the motion of the Earth in space can be made perceptible in terrestrial experiments. We have already remarked…that all attempts of this nature led to a negative result. Before the theory of relativity was put forward, it was difficult to become reconciled to this negative result."

Albert Einstein[18]

"Briefly, everything occurs as if the Earth were at rest…"

Henrick Lorentz[19]

"There was just one alternative; the earth's true velocity through space might happen to have been nil." Arthur Eddington[20]

"The failure of the many attempts to measure terrestrially any effects of the earth's motion…" Wolfgang Pauli[21]

"We do not have and cannot have any means of discovering whether or not we are carried along in a uniform motion of translation."

Henri Poincaré[22]

"A great deal of research has been carried out concerning the influence of the Earth's movement. The results were always negative."

Henri Poincaré[23]

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[17] Speech titled: "How I Created the Theory of Relativity," delivered at Kyoto University, Japan, Dec. 14, 1922, as cited in *Physics Today*, August, 1982.

[18] "Relativity – The Special and General Theory," cited in Stephen Hawking's, *A Stubbornly Persistent Illusion*, 2007, p. 169.

[19] Lorentz's 1886 paper, "On the Influence of the Earth's Motion of Luminiferous Phenomena," in A. Miller's *Albert Einstein's Special Theory of Relativity*, p. 20.

[20] Arthur Eddington, *The Nature of the Physical World*, 1929, pp. 11, 8.

[21] Wolfgang Pauli, *The Theory of Relativity*, 1958, p. 4.

[22] From Poincaré's lecture titled: "L'état actuel et l'avenir de la physique mathematique," St. Louis, Sept. 24, 1904, *Scientific Monthly*, April, 1956.

[23] From Poincaré's report *La science et l'hypothèse* ("Science and Hypothesis")1901, 1968, p. 182. L. Kostro's, *Einstein and the Ether*, 2000, p. 30.

"This conclusion directly contradicts the explanation…which presupposes that the Earth moves."

Albert Michelson[24]

"The data were almost unbelievable… There was only one other possible conclusion to draw — that the Earth was at rest."

Bernard Jaffe[25]

"…nor has any physical experiment ever proved that the Earth actually is in motion."

Lincoln Barnett[26]

"Thus, even now, three and a half centuries after Galileo…it is still remarkably difficult to say categorically whether the earth moves..."

Julian B. Barbour[27]

"*…there must be no favored location in the universe, no center, no boundary; all must see the universe alike. And, in order to ensure this situation, the cosmologist postulates spatial isotropy and spatial homogeneity.…*"

Edwin Hubble[28]

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[24] Albert A. Michelson, "The Relative Motion of the Earth and the Luminiferous Ether," *American Journal of Science*, Vol. 22, August 1881, p. 125, said after his interferometer experiment did not detect the movement of ether against the Earth.
[25] Bernard Jaffe, *Michelson and the Speed of Light*, 1960, p. 76. Jaffe adds this conclusion to the above sentence: "This, of course, was preposterous."
[26] Lincoln Barnett, *The Universe and Dr. Einstein*, 2nd rev. edition, 1957, p. 73.
[27] Julian Barbour, *Absolute or Relative Motion*, Cambridge University Press, 1989, p. 226.
[28] Edwin Hubble, *The Observational Approach to Cosmology*, 1937, p. 63.

Chapter 1

The New Galileo & the Truth about Copernicanism

Galileo was wrong?! How could modern men from the twenty-first century dare to name a book with such a title? No doubt, almost every book written about cosmology in modern times begins with the premise that Copernicus' and Galileo's cosmology was correct and the Catholic Church that condemned them was very mistaken. Typical remarks in a book about Galileo begin with very stern and foreboding words. The reader is simply not permitted to entertain any other possibility as to the construction and movements of the cosmos. As one author put it: "Galileo…who produced *the irrefutable proofs of the Sun-centered system*…came into direct and disastrous conflict with the Church."[29] Another says: "Readers, who know quite well that the Earth goes around the sun…"[30] Yet another says:

> Who better than Galileo to propound the most stunning reversal in perception ever to have jarred intelligent thought: We are not the center of the universe. The immobility of our world is an illusion. We spin. We speed through space. We circle the Sun. We live on a wandering star.[31]

The reader, not knowing any differently, doesn't give the author's assertion a second thought for all his life he has been taught that the Earth revolves around the sun, and he has placed himself under the edict that this particular teaching of modern science is no more to be doubted than the fact that fish swim or that birds fly.

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[29] Ivan R. King, *The Unfolding Universe*, 1976, p. 132, emphasis added. Ivan King was professor of astronomy at the University of California, Berkeley.

[30] Giorgio de Santillana, Massachusetts Institute of Technology, *The Crime of Galileo*, 1962, editor's preface, pp. viii-ix. De Santillana's major thesis is stated very early in the book: "…the tragedy was the result of a plot of which the hierarchies themselves turned out to be the victims no less than Galileo – an intrigue engineered by a group of obscure and disparate characters in strange collusion who planted false documents in the file, who later misinformed the Pope and then presented to him a misleading account of the trial for decision" (p. xx). Suffice it to say, our book will show that it is Santillana who has been the victim of an intrigue engineered by a group of prominent and influential scientists in collusion, who made false conclusions from scientific experiments and then presented a misleading account to the public.

[31] Dava Sobel, *Galileo's Daughter*, 1999, p. 153.

As the typical author begins from the unquestioned premise that Galileo's sun-centered world has been indisputably proven, he will postulate various reasons why the Catholic Church did not accept this new and improved model of the universe. The suggestions are many and varied, ranging from "ecclesiastical bureaucracy," "deliberate chicanery," "religious fundamentalism," "corporate interests" to "unfair tactics,"[32] but there is little doubt that virtually all the biographers and historians will invariably dismiss the possibility that Galileo could have been wrong.

Galileo Galilei: 1564 – 1642

Galileo's Conversion to Geocentrism

Although it will certainly come as a shock to most people, one very important reason we argue against heliocentrism is that we are revealing the wishes of none other than Galileo himself.[33] Unbeknownst to almost every modern reader, and even most historians, is the fact that just one year prior to his death Galileo made it very clear to his former allies where he now stood on the subject of cosmology. On the 29th of March 1641,

[32] These are some of the various reasons given for the Church's rejection of Galileo's theory in the opening pages of Giorgio Santillana's *The Crime of Galileo* (pp. ix, xv, xx), a very terse and satirically worded account of the Galileo affair which is highly critical of the Catholic Church's role and very favorable to Galileo.

[33] Galileo Galilei was also Latinized to Galileus Galileus, which was often the way Galileo signed his name, as for example in his exchange of letters with Kelper in 1597. He was also called Galileo Galilei Linceo.

Galileo responded to a letter that he received from his colleague Francesco Rinuccini, dated the 23rd of March 1641, containing discoveries made by the astronomer Giovanni Pieroni concerning the parallax motion of certain stars, from which both Rinuccini and Pieroni believed they had uncovered proof of the heliocentric system. Rinuccini writes to Galileo:

> Your Illustrious Excellency, Signor Giovanni Pieroni has written to me in recent months telling how he had clearly observed with an optical instrument the movement of a few minutes or seconds in the fixed stars, but with just that level of certainty that the human eye can attain in observing a degree. All this afforded me the greatest pleasure - witnessing such a conclusive argument for the validity of the Copernican system! However, I have felt no little confusion because of something I read a few days ago in a bookshop. I happened to look at a book that is just now on the verge of being published. According to the author, if it were true that the sun is the center of the universe, and that the Earth travels around it once every year, it would follow that we would never be able to see half of the whole sky by night, because the line passing through the center and the horizons of the Earth, touching the periphery of the great orb, is a cord of a piece of the arc of the circle of the starry heavens, the diameter of which passes through the center of the sun. And since I have always believed it to be true - not having personally witnessed it - that the first [star] of Libra rises at the same moment as the first [star] of Aries sets, my limited intelligence has been unable to arrive at a solution. I therefore implore you, in your very great kindness, to remove this doubt from my mind. I will be very greatly obliged to you. Reverently kissing your hand, etc. Francesco Rinuccini."[34]

Galileo, not being particularly moved by the assertions, writes this surprising response to Rinuccini:

> The falsity of the Copernican system should not in any way be called into question, above all, not by Catholics, since we have the unshakeable authority of the Sacred Scripture, interpreted by the most erudite theologians, whose consensus gives us certainty

[34] *Le Opere Di Galileo Galilei*, Antonio Favaro, reprinted from the 1890-1909 edition by Firenze, G. Barbèra – Editore, 1968, vol. 18, p. 311, translated from the original Italian by Fr. Brian Harrison.

regarding the stability of the Earth, situated in the center, and the motion of the sun around the Earth. The conjectures employed by Copernicus and his followers in maintaining the contrary thesis are all sufficiently rebutted by that most solid argument deriving from the omnipotence of God. He is able to bring about in different ways, indeed, in an infinite number of ways, things that, according to our opinion and observation, appear to happen in one particular way. We should not seek to shorten the hand of God and boldly insist on something beyond the limits of our competence…. D'Arcetri, March 29, 1641. I am writing the enclosed letter to Rev. Fr. Fulgenzio, from whom I have heard no news lately. I entrust it to Your Excellency to kindly make sure he receives it."[35]

Search as one might, few today will find Galileo's retraction of Copernicanism cited in books or articles written on the subject of his life and work. Fewer still are those in public conversation about Galileo who have ever heard that he recanted his earlier view. The reason is, quite simply, that the letter has been obscured from the public's eye for the last four centuries. As Galileo historian Klaus Fischer has admitted: "The ruling historiographers of science cannot be freed from the reproach that they have read Galileo's writings too selectively."[36] Fortunately, Galileo's retraction managed to escape censorship and find its way among the rest of his letters in the twenty-volume compendium *Le Opere di Galileo Galilei* finally published in 1909 with a reprint in Florence in 1968. Centuries

[35] *Ibid*, p. 316, translated from the original Italian by Fr. Brian Harrison. A note added by the editor states: "Bibl. Naz. Fir. Banco Rari, Armadio 9, Cartella 5, 33. – Orginale, di mano di Vincenzio Vivani." This means that the letter is stored in the rare archives of the National Library at Florence in the rare books department, in cabinet #9, folder #5, 33 and written in the original hand of Vincenzio Viviani, since Galileo was blind in both eyes in 1641. Viviani was Galileo's last pupil and first biographer. NB: Viviani had performed the first Foucault-type pendulum experiment in 1661. Galileo's letter to Rinuccini was translated into English by Fr. Brian Harrison upon request. Stillman Drake contains a similar translation in *Galileo At Work: His Scientific Biography*, 1978, p. 417.

[36] Klaus Fischer, *Galileo Galilei*, Munich, Germany, Beck, 1983, p. 114.

prior to its publication, there was a concerted effort by either Rinuccini or someone behind the scenes to cover up the fact that the letter was, indeed, written and sent by Galileo. We know this to be the case since a rather obvious attempt was made to erase Galileo's name as the signatory of the letter. The compiler of the original letter makes this startling notation: "The signature 'Galileo Galilei' has been very deliberately and repeatedly rubbed over, with the manifest intention of rendering it illegible."[37] Stillman Drake, one of the top Galileo historians, noticed the subterfuge:

> Among all Galileo's surviving letters, it is only this one on which his name at the end was scratched out heavily in ink. I presume that Rinuccini valued and preserved Galileo's letters no matter what they said, but did not want others to see this declaration by Galileo that the Copernican system was false, lest he be thought a hypocrite.[38]

Judging from the contents of his letter to Rinuccini, for quite some time it seems that Galileo had been contemplating the problems inherent in the Copernican system, as well as his desire to convert back to an Earth-centered cosmology. The wording in his letter is rather settled and direct as it does not reflect someone who is confused or equivocating. It holds the convictions of a man who has been swept off his feet by a more convincing position. Hence, far from being a hero of modern cosmology, shortly before his death Galileo had become its worst adversary – a fact of history that has been either quietly ignored or deliberately suppressed.

What has also been suppressed is the spiritual reason Galileo had a change of heart. In the new book *Galileo: Watcher of the Skies*, author David Wootton makes a substantial case that prior to 1639, three years before his death, Galileo was not a true Christian but merely a nominal Catholic who was a member of a secret society that actually rejected major Catholic doctrines. These doctrinal aberrations, coupled with his immoral life, strongly suggest that Galileo's quest to advance Copernicanism was motivated by a very strong anti-Church sentiment, as was the case with many other scientists in history. By 1641, it seems to be the case that Galileo's newfound faith led him to accept fully the Church's historic geocentric cosmology as a divine revelation.[39]

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[37] Original Italian: "La firma 'Galileo Galilei' è stata accuratissimamente coperta di freghi, con manifesta intenzione di renderla illeggibile" (*Le Opere Di Galileo Galilei*, vol. 18, p. 316, footnote #2). Translated by Fr. Brian Harrison.

[38] Stillman Drake, *Galileo At Work: His Scientific Biography*, 1978, p. 418.

[39] See Volume III, Chapter 16 for the details of Galileo's conversion. David Wootton, *Galieo: Watcher of the Skies*, New Haven, Yale Univ. Press, 2010.

Copernicanism's Procrustean Bed

Opposed to the repentant and converted Galileo, most of today's scientists impose on us a belief, according to Carl Sagan (d. 1996), that "we live on an insignificant planet of a humdrum star lost in a galaxy tucked away in some forgotten corner of a universe in which there are far more galaxies than people," and all of which popped into existence, by chance, "billions and billions" of years ago.[40]

Carl Sagan 1934 – 1996

Stephen Gould 1941 – 2002

This glum picture of our place in the universe is, in the estimation of its most cherished icons, the springboard of all modern science. In the words of one of its leading figures, Stephen Jay Gould:

[40] Carl Sagan, *Cosmos*, New York: Random House, 1980, p. 193. "The Cosmos is all that is or ever was or ever will be. Our feeblest contemplations of the Cosmos stir us — there is a tingling in the spine, a catch in the voice, a faint sensation of a distant memory, as if we were falling from a great height. We know we are approaching the greatest of mysteries" (*ibid*., p. 4). "The idea that God is an oversized white male with a flowing beard who sits in the sky and tallies the fall of every sparrow is ludicrous. But if by God one means the set of physical laws that govern the universe, then clearly there is such a God. This God is emotionally unsatisfying... it does not make much sense to pray to the law of gravity" ("Scientists & Their Gods," *U.S. News & World Report* Vol. 111 (1991); "Who is more humble? The scientist who looks at the universe with an open mind and accepts whatever it has to teach us, or somebody who says everything in this book must be considered the literal truth and never mind the fallibility of all the human beings involved?" Interview with Charlie Rose (1996).